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Method and apparatus for displaying player tracking information  
on an electronic gaming machine display

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## **ABSTRACT**

A gaming machine includes gaming electronics for projecting a game image onto a gaming machine display associated with the gaming machine. The gaming machine is coupled over a network to a host computer that keeps track of data corresponding to a casino patron such as loyalty bonus information, player ID, and so forth ("player tracking data"). The player tracking data is transmitted from the host computer to a gaming machine responsive to identification of the casino patron operating the machine via an electronic card reader. The player tracking data is received by a machine communication interface within the gaming machine and further processed for display by a video overlay device that combines the game image with the player account display information. Accordingly, both the game (e.g. slot machine) and the player account information can appear on the same display monitor.



**AUSTRALIA**

*Patents Act 1990*

**ORIGINAL**

**COMPLETE SPECIFICATION**

**STANDARD PATENT**

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Invention Title: "Method and Apparatus for Displaying Player Tracking Information on  
an Electronic Gaming Machine Display"

The following statement is a full description of this invention, including the best  
method of performing it known to me:-

METHOD AND APPARATUS FOR DISPLAYING PLAYER TRACKING  
INFORMATION ON AN ELECTRONIC GAMING MACHINE DISPLAY

FIELD OF THE INVENTION

This invention relates generally to electronic gaming machines and more particularly to such a machine having display electronics capable of displaying additional information, such as loyalty bonus information, simultaneously with the game display.

BACKGROUND OF THE INVENTION

This specification refers to and describes content of US patent 5,655,961 and US patent 6,319,125 (also referred to herein as application 08/843,411, filed April 15, 1997). However, neither the disclosures in those US patents nor the description contained herein of the content of those US patents is to be taken as forming part of the common general knowledge solely by virtue of the inclusion herein of the reference to and description of content of those US patent and application. Furthermore, this specification describes aspects of prior art gaming machine displays and player tracking systems. However, neither such aspects of prior art gaming machine displays and player tracking systems nor the description contained herein of such aspects of prior art gaming machine displays and player tracking systems is to be taken as forming part of the common general knowledge solely by virtue of the inclusion herein of reference to and description of such aspects of prior art gaming machine displays and player tracking systems.

Video gaming machines utilize a video screen to present game information. These screens are almost always in color and offer increasingly higher resolution and increasingly complex games. Players must concentrate on the game screen to keep track of game progress.

Modern casinos gain great benefit from establishing a bond of loyalty with their customers. Player tracking systems have evolved over the past 15 years to

measure individual player activity and award "points" based upon the frequency of that activity. Player tracking systems generally include a means for the customer to identify himself (a magnetic stripe card). Each gaming machine is then equipped with a card reader to accept player cards and a display to let

5 the player know that the card was properly accepted and the account status – generally as a point total. In recent years, systems have begun to provide additional bonuses to players in return for volume of play and loyalty. Bonuses include extra jackpots, free games and other awards. Advanced systems also allow players to convert points – which originally were redeemed for prizes, cash

10 or services – into free play on the gaming machine.

Most player tracking systems use a small LCD (Liquid Crystal Display), LED (Light Emitting Diode display) or VFD (Vacuum Fluorescent Display) to inform the player of loyalty awards. The information presented on these displays has always been distinct from game specific information. As more and more

15 awards are made for loyalty, it becomes harder and harder to communicate everything to players. Player tracking displays have grown in size and

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complexity. Since these displays must mount within or upon existing gaming machines, space is often limited which makes it impossible to install the larger displays that have recently become available. And because player-tracking systems are add-ons to game machines, and because of competitive 5 and budgetary pressures, displays are further restricted by cost considerations. For example, no commercial player tracking system has ever offered a separate multi-color display since the cost and size for such a display are usually prohibitive.

Game complexity makes the problem even worse. Loyalty bonuses often 10 require timely response from the player in order to be won. Since players concentrate more on complex game events, they are slower to notice loyalty awards on the player tracking display.

Accordingly, a need remains for a gaming machine display solution that overcomes the drawbacks of the prior art.

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SUMMARY OF THE INVENTION

In accordance with one aspect of the present invention there is provided a method for displaying player account information on a display of a gaming machine connected by a network to a host computer comprising:

creating a player account accessible by the host computer;

20 generating game display information to create an original image;

accessing at the gaming machine the player account from the host computer;

generating player account display information to create an overlay image;

25 combining the original image with the overlay image to recreate a combined image such that in the combined image, the overlay image does not

interfere substantially with the game display information of the original image; and

displaying the combined image on the display of the gaming machine such that the player account display information of the overlay image is displayed  
5 within at least one player tracking display field at a selected location in the combined image displayed on the display of the gaming machine..

In accordance with a second aspect of the present invention there is provided an apparatus for displaying additional information on a gaming machine display comprising:

10 a host computer including a database of player tracking information;

a gaming machine coupled to said host computer over a network, said gaming machine including a gaming machine display and gaming electronics for generating and projecting a game image onto the gaming machine display; and

15 communication means for bi-directional communication between the host computer and the gaming machine, said communication means including supplemental commands operative with said gaming electronics to combine said game image with a player tracking image, generated from said player tracking information communicated from said host computer to said gaming machine, to create a combined image for display on said gaming machine display,

20 such that in said combined image, said player tracking image does not interfere substantially with said game image and said player tracking information of said player tracking image is displayed within at least one player tracking display field at a selected location in said combined image displayed on said gaming machine display.

In accordance with a third aspect of the present invention there is provided an apparatus for displaying information on a display of at least one of a plurality of gaming machines coupled over a network to a host computer comprising:

5        a card reader operable with a casino-issued player tracking card to identify a user of the gaming machine;

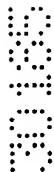
            a machine communication interface coupled to receive player tracking data from a host computer responsive to a user identified from the card reader;

            a game video display;

10        gaming electronics programmed to operate and display a game image on the game video display; and

            a video overlay device interposed between said gaming electronics and said game video display to overlay the player tracking data received from the host computer on top of the game image received from the gaming electronics to  
15        create a combined image for display on said game video display,

such that in said combined image, said player tracking data does not interfere substantially with said game image and said player tracking data is displayed within at least one player tracking display field at a selected location in said combined image displayed on said game video display.



The embodiments of the present invention, that are later herein described, outline a solution by making use of the game video display to simultaneously present player tracking and loyalty award information. By strategically arranging the game features, most current video displays can easily present such

5 information without interfering with game operation. Since the information is directly adjacent to the game display, it is much easier to see. Because the game display is virtually always capable of color display, the player tracking information is even more noticeable. Bonus information can even be presented with animated graphics. Costs are also lowered since there is only one display

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic diagram of a plurality of electronic gaming machines interconnected by a computer network to a host computer in accordance with the present invention.

5 FIGs. 2A and 2B illustrate a schematic diagram and block diagram, respectively, of an electronic gaming machine with included player tracking display system and associated hardware implemented in accordance with the prior art.

FIG. 3 is a block diagram showing a player tracking display system  
10 implemented according to a first embodiment of the invention.

FIGs. 4A-4C illustrate a schematic diagram, block diagram, and schematic screen display, respectively, of a preferred implementation of a player tracking display system installed in an electronic gaming machine according to the present invention.

15 DETAILED DESCRIPTION

Turning now to FIG. 1, indicated generally at 10 is a schematic diagram illustrating electronic gaming machines (EGMs), like EGMs 12, 14, interconnected by a computer network. In the present embodiment, the EGM comprises a slot machine although it is understood that the invention can be  
20 used with other type of gaming devices such as video poker machines. Included in the network are three banks, indicated generally at 16, 18, 20, of EGMs. Each EGM is connected via a network connection, like connection 22, to a bank controller 24. In the present embodiment of the invention, each bank controller comprises a processor that facilitates data communication between the EGMs in  
25 its associated bank and the other components on the network. The bank

controller also includes a CD ROM drive for transmitting digitized sound effects, such as music and the like, to a speaker 26 responsive to commands issued over the network to bank controller 24. The bank controller is also connected to an electronic sign 28 that displays information, such as jackpot amounts and the like, visible to players of machines on bank 16. Such displays are generated and changed responsive to commands issued over the network to bank controller 24. Each of the other banks 18, 20 of EGMS include associated bank controllers, speakers, and signs as shown, which operate in substantially the same manner.

Ethernet hub 30 connects each of the bank controllers associated with banks 16, 18, 20 of EGMS to a concentrator 32. Another Ethernet hub 34 connects similar bank controllers (not shown), each associated with an additional bank of EGMS (also not shown), to concentrator 32. The concentrator functions as a data control switch to route data from each of the banks to a translator 36. The translator comprises a compatibility buffer between the concentrator and a proprietary accounting system 38. It functions to place all the data gathered from each of the bank controllers into a format compatible with accounting system 38. In the present embodiment of the invention, translator 38 comprises a microprocessor, such as an Intel Pentium III 600 MHz processor, operating Microsoft Windows NT 4.0.

Another Ethernet hub 39 is connected to a configuration workstation 40, a player server 42, and to bonus servers 44, 46. Hub 39 facilitates data flow to or from workstation 40 and servers 42, 44, 46.

The configuration workstation 40 comprises a user interface. It comprises a personal computer including a keyboard, Intel Pentium or like processor and an Ethernet card.

The player server 42 comprises a microcomputer that is used to control messages that appear on displays associated with each EGM. Player server 42 includes an Intel Pentium or like processor and an Ethernet card. Player activity and loyalty criteria (points) can be awarded and maintained on the player server

and transmitted to the appropriate EGM 12 for display to the player as described in more detail below.

Bonus servers 44, 46 each comprise a microcomputer used to control bonus applications on the network. Each bonus application comprises a set of  
5 rules for awarding jackpots in excess of those established by the pay tables on each EGM. For example, some bonus awards may be made randomly, while others may be made to link to groups of EGMS operating in a progressive jackpot mode. Examples of bonuses that can be implemented on the network are disclosed in co-pending application no. 08/843,411, filed April 15, 1997 and  
10 assigned to the Assignee of the present application (the '411 application), which is incorporated herein by reference for all purposes. This co-pending application also describes in more detail features of the network, like that shown in FIG. 1, which may be used to implement the present invention. Also incorporated herein by reference for all purposes is U.S. Patent No. 5,655,961, assigned to the  
15 Assignee of the present application (the '961 patent), which also discloses bonuses that can be implemented by bonus servers 44, 46 and a network that could be used to implement the present invention.

FIG. 2A is a highly schematic representation of an electronic slot machine, which is typical of each of the machines in the network, constructed with a  
20 conventional player tracking display system and which incorporates network communications hardware as described hereinafter. This hardware is described in the '961 patent, and is referred to therein as a data communications node. Preferably the network communications hardware is like that disclosed in the '411 application, namely a machine communication interface (MCI) 50. MCI 50  
25 facilitates communication between the network, via connection 22, and microprocessor 52, which controls the operation of EGM 12. This communication occurs via a serial port 54 on the microprocessor to which MCI 50 is connected.

Included in EGM 12 is a display 48 such as a CRT, LCD or the like.  
30 Gaming electronics 49, including a video driver card, creates and projects the

game image onto display 48. The game image shown is that of three virtual reels that are displayed in a game display field 55 of display 48. Each virtual reel includes a plurality of different symbols thereon. In response to a pull on handle 51 or actuation of a spin button 53 after a wager is made, the symbols displayed 5 on the reels change according to an algorithm stored in the gaming electronics to simulate the spinning of a mechanical reel system from more traditional slot machines.

MCI 50 may include a random access memory (RAM), which can be used as later described herein. The MCI also facilitates communication between the 10 network and a vacuum florescent display (VFD) 58, and a card reader 60. Supplemental display 58 typically displays player tracking information or promotional messages received from the network or stored on the MCI.



Description will first be made of typical play on a slot machine, like EGM 12. A player plays EGM 12 by placing a wager and then pulling handle 51 or 15 depressing spin button 53. The wager may be placed by inserting a bill into a bill acceptor 68. A typical slot machine, like EGM 12, includes a coin acceptor (not shown) that may also be used by the player to make a wager. A credit meter 70 is a numeric display that indicates the total number of credits available for the 20 player to wager. The credits are in the base denomination of the machine. For example, in a nickel slot machine, when a five dollar bill is inserted into bill acceptor 68, a credit of 100 appears on credit meter 70. To place a wager, the player depresses a coin-in button (not shown), which transfers a credit from the credit meter 70 to a coin-in meter 72. Each time the button is depressed, a single credit transfers to the coin-in meter up to a maximum bet that can be 25 placed on a single play of the machine. Alternatively, a maximum-bet button (also not shown) is provided to immediately transfer the maximum number of credits that can be wagered on a single play from the credit meter 70 to the coin-in meter 72.

When coin-in meter 72 reflects the number of credits that the player 30 intends to wager, the player depresses spin button 53 thereby initiating a game.

The player may choose to have any jackpot won applied to credit meter 70. When the player wishes to cash out, the player depresses a cash-out button 74, which causes the credits on meter 70 to be paid in coins to the player at a hopper 78, which is part of machine 12. The machine consequently pays to the 5 player, via hopper 78, the number of coins – in the base denomination of the machine – that appear on credit meter 70.

Typical slot machines, like machine 12, are limited in the total amount of coins that can be paid to the player from the hopper. Thus, when jackpots are in excess of the hopper-pay limit, the machine locks up and the jackpot is hand 10 paid by casino personnel to the player. After the jackpot is so paid, the casino personnel resets the machine to permit play to resume.



Card reader 60 reads a player-tracking card 66 that is issued by the casino to individual players who choose to have such a card. Card reader 60 and player-tracking card 66 are known in the art, as are player-tracking systems, 15 examples being disclosed in the '961 patent and '411 application. Briefly summarizing such a system, a player registers with the casino prior to commencing gaming. The casino issues a unique player-tracking card to the player and opens a corresponding player account that is stored on accounting system 38 (in FIG. 1). The account includes the player's name and mailing 20 address and perhaps other information of interest to the casino in connection with marketing efforts. Prior to playing one of the EGMs in FIG. 1, the player inserts card 66 into reader 60 thus permitting accounting system 38 to track player activity, such as amounts wagered and won and rate of play.

When the casino opens a player account, it may implement a player 25 tracking system that accounts for loyalty bonus points earned by the casino patron by frequent play.

The player selects one of the network slot machines – in this case machine 12 – and inserts card 66 into reader 60. The player then inserts one or more bills into bill acceptor 68, which purchases a corresponding number of 30 credits in the base denomination of the machine that are applied to and appear

on credit meter 70. The player may also, of course, apply credits to the credit meter by depositing coin in the coin acceptor (not shown) that is part of machine 12. When the player inserts card 66 into reader 60, the player record that the casino created on accounting system 38 is fetched from the accounting system 5 and loaded into memory in MCI 50. Insertion of card 66 into card reader 60 is referred to herein as a first command or a log-in command.

After the credits are displayed on meter 70, the player plays slot machine 12 in a conventional manner as described above. That is, the coin-in button (not shown) is depressed by the player to transfer the desired number of credits from 10 credit meter 70 to coin-in meter 72. After so doing, the player presses spin button 53 to spin reels 48. Upon completion of the game, i.e., after the reels stop "spinning", any jackpot payable according to a pay table internal to machine 12 is also applied to credit meter 70. Similarly, any bonuses, i.e., any payments to the 15 player that result from awards not generated by the pay table in machine 12, as described in the '961 patent, are also applied to credit meter 70.

FIG. 2B illustrates a block diagram of the main components operating within the prior art gaming machine player tracking display system. The game elements of concern here are the video display 48 and the game electronics 49. The game electronics monitors player actions – coins and currency in, game 20 buttons pressed, etc., creates the game image, determines game results and issues credits when wins occur. Game statistics and other information are sent, usually via serial port, to a separate player tracking system electronics, represented here the Data Collection Node or MCI 50. The MCI is connected to an external network 22 from which it obtains information about how points are 25 earned as well as information about individual players which are identified when the player inserts a card into the card reader 60.

Some player tracking systems also send information back to the game electronics – most often these are commands telling the game to pay a bonus by assigning additional credits to the game or to pay jackpots at some multiple of 30 their normal value. Sending such information back to the game electronics is

generally referred to as bi-directional communication or bonus events. This sort of connectivity has become so important that several standards have evolved defining exactly how such events are communicated. An industry group, GAMMA – (GAming Machine Manufacturers), has even been created to 5 establish and maintain such standards. While FIG. 2B represents the standard industry method of today, it suffers from the limitations that a separate player tracking display 58 is required to display the player loyalty points or other information no generated directly by the gaming electronics 49.

FIG. 3 illustrates a block diagram of a first implementation of the invention

- 10 adapted to overcome the drawbacks of prior art player tracking display systems. Here, the player tracking display is removed. Player-specific information is then routed directly to the game video display by expanding the information exchanged between the MCI 50 and game electronics 49. No additional serial port is required. Only additional commands must be defined – and such
- 15 definition is the exact purpose of industry associations like GAMMA. In addition, the Game Electronics must be reconfigured to place the player-specific information on a chosen area of the screen. The Game Electronics can be further modified to present this information as animated graphics where appropriate.
- 20 In some cases it may not be possible to modify the game electronics 49 either because there is simply no capacity to carry out the additional display functions or because the game manufacturer chooses not to make hardware or software modifications.

FIGs. 4A, 4B and 4C illustrate a preferred apparatus employing a method 25 that is useful in such situations. A Video Overlay Device (VOD) 80 is inserted between the game electronics 49 and the video display 48. Under normal circumstances the VOD 80 simply passes video signals from game electronics, unmodified, to the video display 48. Since most modern video displays are raster-scan devices (i.e. CRT-based monitors), a description will now be given 30 corresponding to the operation of the VOD 80 in these type of raster scan

devices. It is understood, however, that video overlay can be performed digitally as well in non-raster-based display devices.

In the raster-scan display device, the interface between the video display and game electronics carries synchronization signals from the video display for both Horizontal (HSYNC) and Vertical (VSYNC) positions. These HSYNC and VSYNC signals determine where on the screen an image is located. An image is painted onto the screen as horizontal lines beginning in the top left corner. As the line is traced from left to right, three electron beams of varying colors (red, green and blue) are focussed on the viewing screen's phosphor coatings. Each beam is varied from low to high in intensity depending upon the image being shown. Low intensity causes the color that beam represents to be dim or totally invisible. A high intensity beam creates a bright representation for that color. By varying the intensity of each beam at a particular time, virtually any color can be displayed. All beams on in the same intensity create a white color. All beams off gives the perception of black.

At the end of each trace an HSYNC pulse is generated and the next line of video is projected some distance below the first. Any number of lines may be represented, according to the type of video monitor being used. Older displays typically provided 200 vertical lines. Newer displays allow 480, 600, 768 or 1,024 lines. When the last line is completed, a VSYNC pulse is generated to indicate a new screen of video information is to begin. Most video displays generate from 50 to 100 complete displays of information each second.

In the time between HSYNC pulses, the beam is moving from left to right across the screen. The location of the beam at any time is closely correlated by the amount of time passed since the HSYNC pulse appeared. By counting the HSYNC pulses since the last VSYNC pulse, a precise vertical location of the beam can also be determined.

The VOD counts HSYNC pulses and resets this counter after each VSYNC, while simultaneously passing both signals on to the game electronics which uses the same scheme to determine what portion of the normal game

image to present. It also contains a precision timer that is reset after each HSYNC pulse. The VOD 80 is configured to exactly pass through the game electronics video signal to the video display 48 in most areas.

But the VOD 80 also contains video information of its own. It is  
5 programmed to substitute this video information for the game electronics 49  
information at specific screen locations. This allows the VOD to present blocks  
of its own video images at any screen location desired. This block would appear  
to the player to be a part of the game display. By choosing areas of the screen  
that are unimportant to game play, the VOD can project any desired information  
10 and have it appear as if that information is embedded within the game display.  
The game electronics need never know that the VOD exists. The game  
electronics continues to function as if it has full control of the video display and  
therefore requires no modification.

An interface, generally consisting of a serial port and some discrete  
15 control lines for fast signaling connects the VOD to the MCI 50. This allows the  
MCI to send coordinates on the video blocks to display, turn the blocks on and  
off and even display alphanumeric characters that spell the player's name or  
point balances as identified by the player's account information. The latter is  
possible because the VOD includes a character generator circuit which is now  
20 readily available in inexpensive, standard video integrated circuits which are well  
known to any computer hardware engineer.

FIG. 4C illustrates the arrangement of content on the gaming machine  
display screen 48. The gaming electronics 49 operates to display an image  
within a game display field 55 of the display 48. The image shown in FIG. 4C  
25 corresponds to a reel-based game. It is understood, however, that other types of  
games can be created within the game display field such as poker (five cards) or  
the like. Other information can be overlaid by the VOD 80 on portions of the  
general gaming display 48 that would not substantially interfere with the  
enjoyment and operation of the game displayed within display field 55, such as  
30 within player tracking display field 82 and added graphics field 84. Types of

information that can be displayed within display field 55 include, but are not limited to, player name, player ID, player point total, session point total, personal progressive, number of extra credits, information about a bonus related to card use (loyalty bonus), and the loyalty award. The loyalty award can be linked to a 5 player's response time.

The preferred embodiment has the advantage of allowing one to easily retrofit existing gaming machines to allow a single color display screen to display important information to the player without interfering with game play. The more general embodiment shown in FIG. 3, however, would not require additional 10 electronics in each of the gaming machines but would require that the firmware programming be altered.

Having described and illustrated the principles of the invention in a preferred embodiment thereof, it should be apparent that the invention can be modified in arrangement and detail without departing from such principles. Furthermore, 15 modifications and variations such as would be apparent to a skilled addressee are deemed to be within the scope of the present invention.

Throughout this specification, unless the context requires otherwise, the words "comprise" and "include", or variations such as "comprises", "includes", "comprising" or "including", will be understood to imply the inclusion of a stated 20 integer or group of integers but not the exclusion of any other integer or group of integers.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS

1. A method for displaying player account information on a display of a gaming machine connected by a network to a host computer comprising:

5 creating a player account accessible by the host computer;

generating game display information to create an original image;

accessing at the gaming machine the player account from the host computer;

generating player account display information to create an overlay image;

10 combining the original image with the overlay image to create a combined image such that in the combined image, the overlay image does not interfere substantially with the game display information of the original image; and

15 displaying the combined image on the display of the gaming machine such that the player account display information of the overlay image is displayed within at least one player tracking display field at a selected location in the combined image displayed on the display of the gaming machine.

2. The method of claim 1, wherein the step of combining the original image with the overlay image includes the step of overlaying the overlay image on top of the original image.

20 3. The method of claim 1 or 2, further comprising:

dividing the display into a plurality of display fields including at least a game display field and said player tracking display field; and

displaying the original image within the game display field and the overlay image within the player tracking display field.

4. The method of any one of the preceding claims, wherein the player account display information includes a player name.
5. The method of any one of the preceding claims, wherein the player account display information includes a player ID.
6. The method of any one of the preceding claims, wherein the player account display information includes a player point total.
7. The method of any one of the preceding claims, wherein the player account display information includes a session point total.
8. The method of any one of the preceding claims, wherein the player account display information includes a personal progressive.
9. The method of any one of the preceding claims, wherein the player account display information includes an extra credit.
10. The method of any one of the preceding claims, wherein the player account display information includes a loyalty bonus.
11. The method of any one of the preceding claims, wherein the player account display information includes a loyalty award.
12. An apparatus for displaying additional information on a gaming machine display comprising:  
a host computer including a database of player tracking information;

a gaming machine coupled to said host computer over a network, said gaming machine including a gaming machine display and gaming electronics for generating and projecting a game image onto the gaming machine display; and

communication means for bi-directional communication between the host  
5 computer and the gaming machine, said communication means including supplemental commands operative with said gaming electronics to combine said game image with a player tracking image, generated from said player tracking information communicated from said host computer to said gaming machine, to created a combined image for display on said gaming machine display.

10 such that in said combined image, said player tracking image does not interfere substantially with said game image and said player tracking information of said player tracking image is displayed within at least one player tracking display field at a selected location in said combined image displayed on said gaming machine display.

15 13. The apparatus of claim 12, wherein the player tracking information includes a player name.

14. The apparatus of claim 12 or 13, wherein the player tracking information includes a player ID.

15. The apparatus of any one of claims 12 to 14, wherein the player tracking  
20 information includes a player point total.

16. The apparatus of any one of claims 12 to 15, wherein the player tracking information includes a session point total.

17. The apparatus of any one of claims 12 to 16 , wherein the player tracking information includes a personal progressive.

25 18. The apparatus of any one of claims 12 to 17, wherein the player tracking information includes an extra credit.

19. The apparatus of any one of claims 12 to 18, wherein the player tracking information includes a loyalty bonus.

20. The apparatus of any one of claims 12 to 19, wherein the player tracking information includes a loyalty award.

5 21. An apparatus for displaying information on a display of at least one of a plurality of gaming machines coupled over a network to a host computer comprising:

a card reader operable with a casino-issued player tracking card to identify a user of the gaming machine;

10 a machine communication interface coupled to receive player tracking data from a host computer responsive to a user identified from the card reader;

a game video display;

gaming electronics programmed to operate and display a game image on the game video display; and

15 a video overlay device interposed between said gaming electronics and said game video display to overlay the player tracking data received from the host computer on top of the game image received from the gaming electronics to create a combined image for display on said game video display,

such that in said combined image, said player tracking data does not interfere  
20 substantially with said game image and said player tracking data is displayed within at least one player tracking display field at a selected location in said combined image displayed on said game video display

22. The apparatus of claim 21, wherein the player tracking data includes a player name.

23. The apparatus of claims 21 or 22, wherein the player tracking data includes a player ID.

24. The apparatus of any one of claims 21 to 23, wherein the player tracking data includes a player point total.

5 25. The apparatus of any one of claims 21 to 24, wherein the player tracking data includes a session point total.

26. The apparatus of any one of claims 21 to 25, wherein the player tracking data includes a personal progressive.

27. The apparatus of any one of claims 21 to 26, wherein the player tracking data includes an extra credit.

28. The apparatus of any one of claims 21 to 27, wherein the player tracking data includes a loyalty bonus.

29. The apparatus of any one of claims 21 to 28, wherein the player tracking data includes a loyalty award.

15 30. A method for displaying player account information on a display of a gaming machine connected by a network to a host computer substantially as hereinbefore described with reference to Figures 1, 3, 4A, 4B and 4C of the accompanying drawings.

31. An apparatus for displaying additional information on a gaming machine display substantially as hereinbefore described with reference to Figures 1, 3, 4A, 4B and 4C of the accompanying drawings.

32. An apparatus for displaying information on a display of at least one of a plurality of gaming machines coupled over a network to a host computer substantially as hereinbefore described with reference to Figures 1, 3, 4A, 4B and 4C of the accompanying drawings.

- 20 -

Dated this Sixth day of April 2004

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Perth, Western Australia  
Patent Attorneys for the Applicant

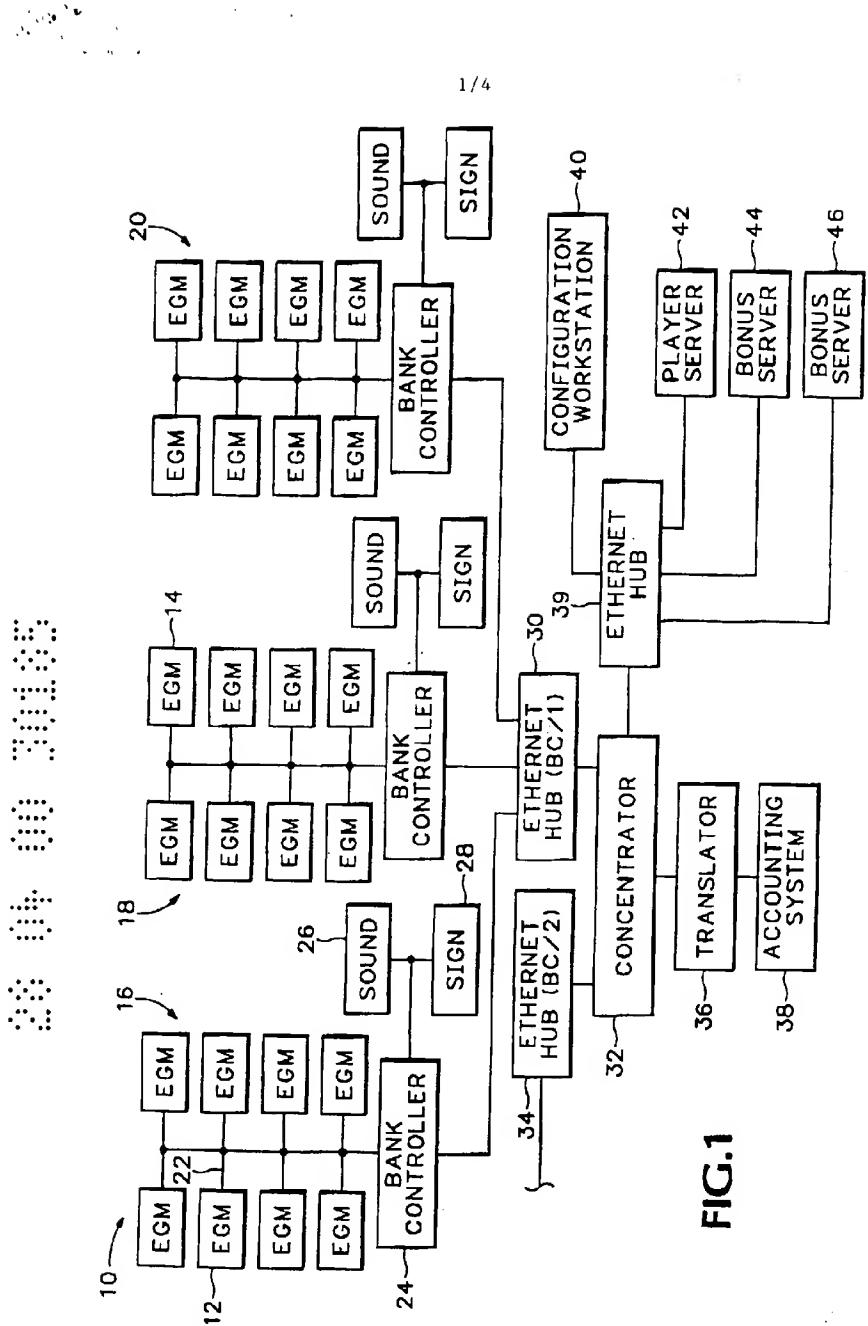
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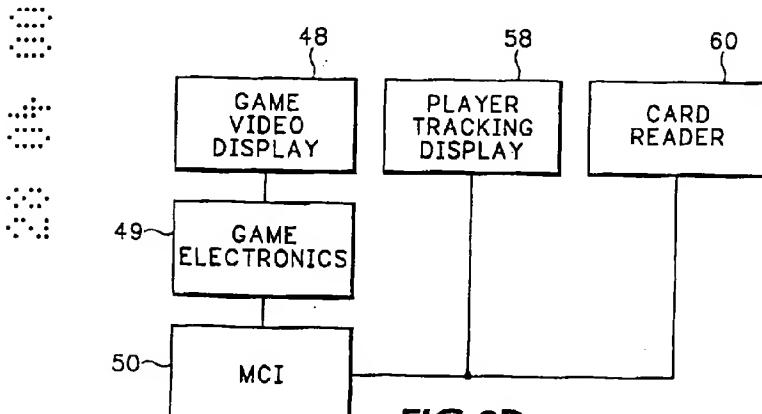
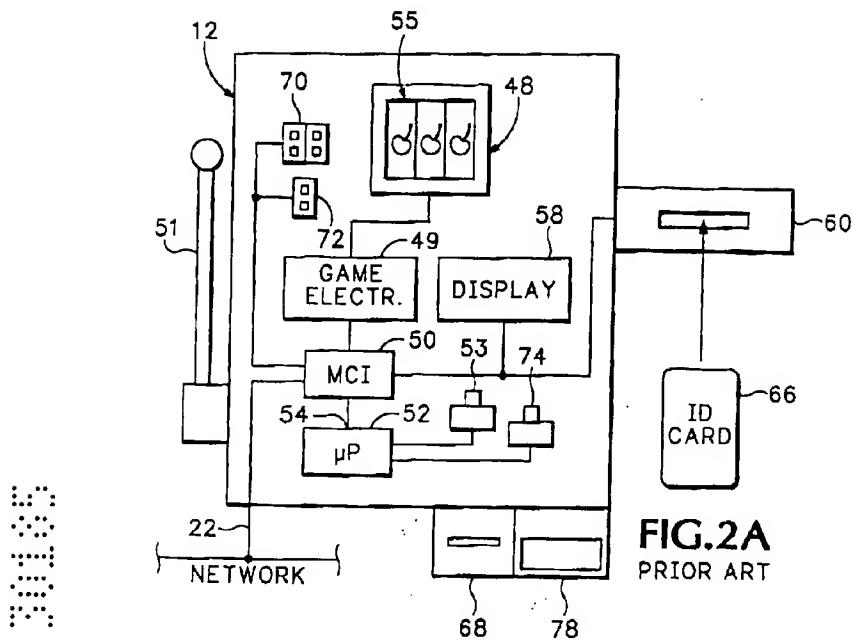
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**FIG.1**



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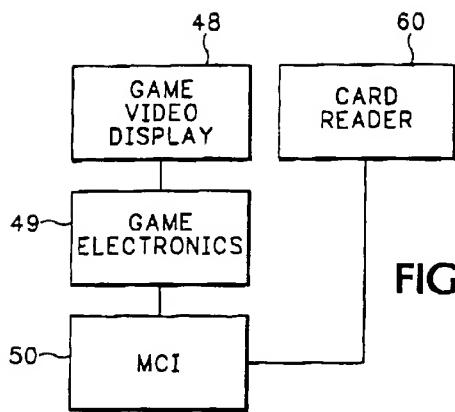


FIG.3

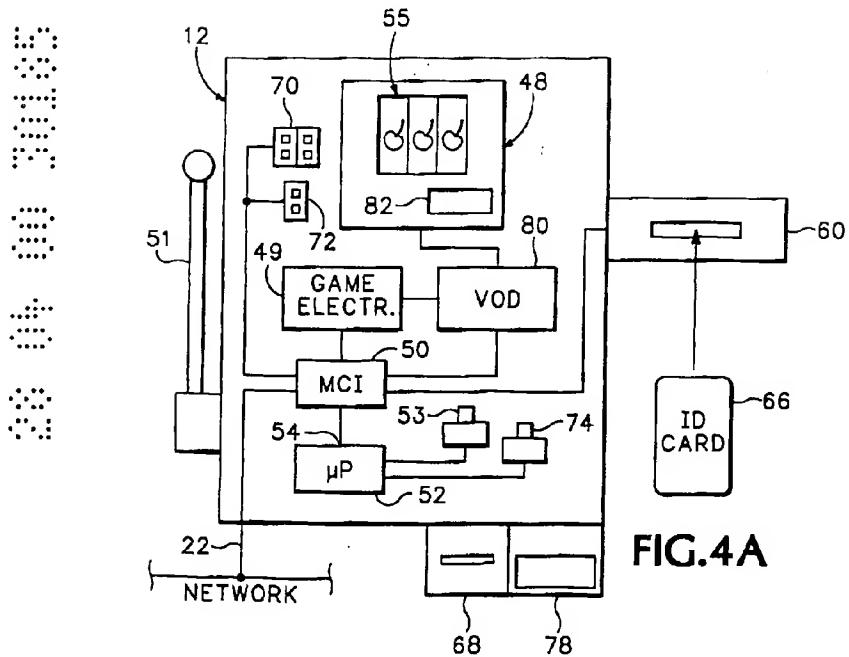
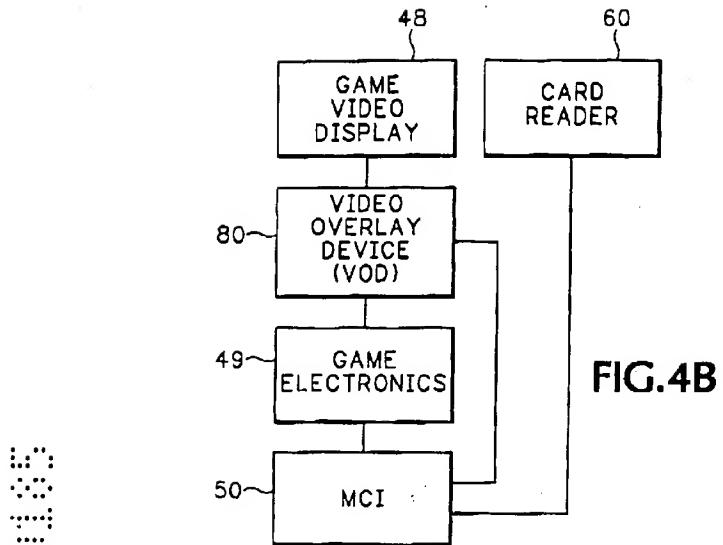
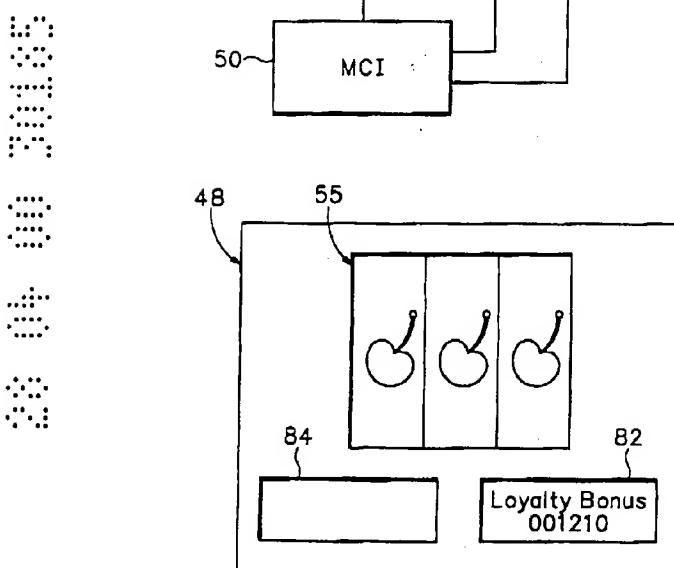


FIG.4A

**FIG.4B****FIG.4C**